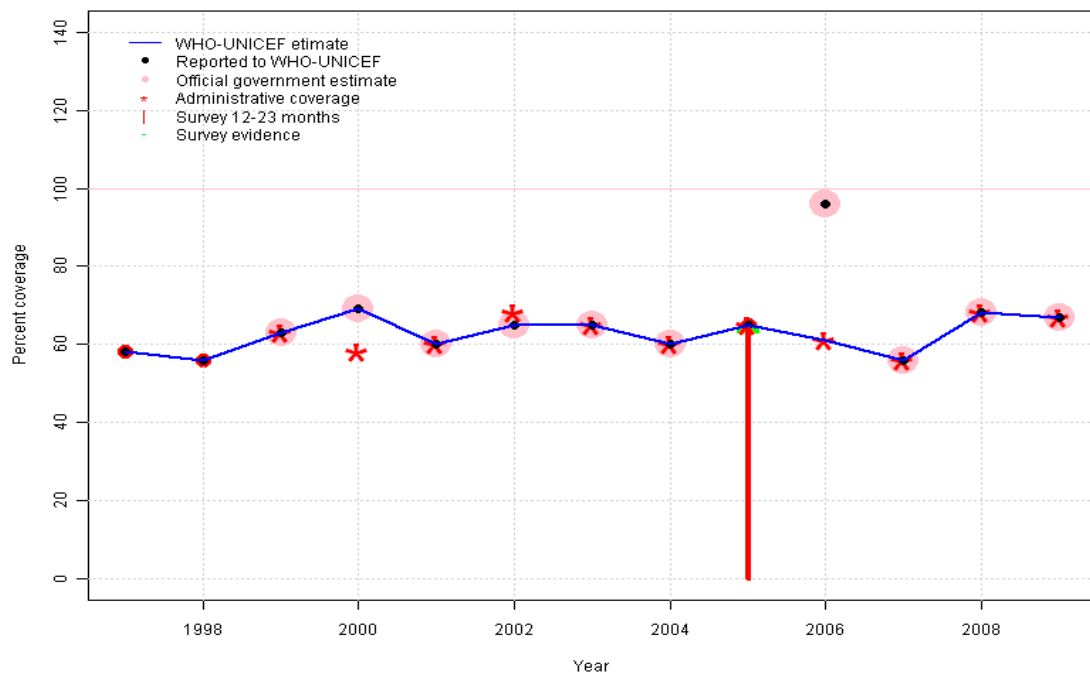


Lao People's Democratic Republic - BCG

LAO - BCG



Description:

1997: Legacy estimate.

1998: Estimate based on reported data.

1999: Estimate based on reported data.

2000: Estimate based on reported data.

2001: Estimate based on reported data.

2002: Estimate based on reported data.

2003: Estimate based on reported data.

2004: Estimate based on reported data.

2005: Estimate based on reported data (65 percent) confirmed by survey (64 percent).

2006: Estimate assigned by working group. The 2006 estimate is based on administrative coverage using the projections from the National Statistics Center, while the national official estimate is based on the EPI system registration books. 2006 reported data (96 percent) inconsistent with data from other years.

2007: Estimate based on reported data.

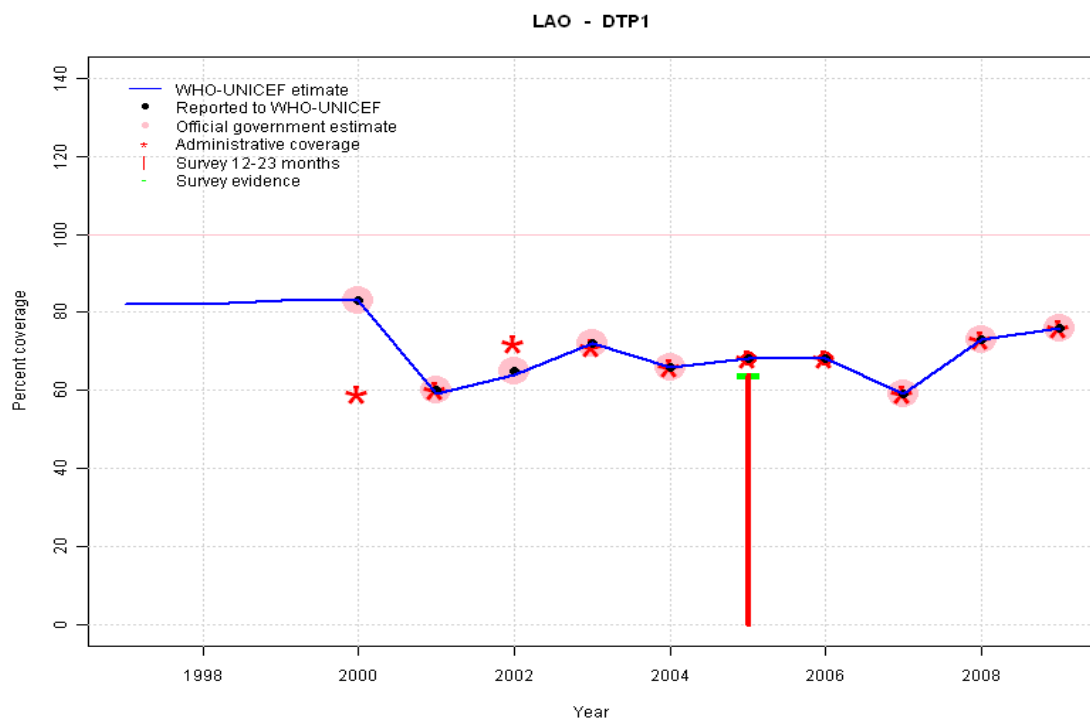
2008: Estimate based on reported data.

2009: Estimate based on reported data.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	58	56	63	69	60	65	65	60	65	61	56	68	67
Reported	58	56	63	69	60	65	65	60	65	96	56	68	67
Official	NA	NA	63	69	60	65	65	60	NA	96	56	68	67
Administrative	NA	NA	63	58	60	68	65	60	65	61	56	68	67
Survey	NA	NA	NA	NA	NA	NA	NA	NA	64	NA	NA	NA	NA

Lao People's Democratic Republic - DTP1

Description:



1997: Legacy estimate.

1998: Reported data (83 percent) calibrated to 1997 and 2005 levels. Missing or ignored reported value estimated by extrapolation from 2000 reported value of 83 percent.

1999: Reported data (83 percent) calibrated to 1997 and 2005 levels. Missing or ignored reported value estimated by extrapolation from 2000 reported value of 83 percent.

2000: Reported data (83 percent) calibrated to 1997 and 2005 levels.

2001: Reported data (60 percent) calibrated to 1997 and 2005 levels.

2002: Reported data (65 percent) calibrated to 1997 and 2005 levels.

2003: Reported data (72 percent) calibrated to 1997 and 2005 levels.

2004: Reported data (66 percent) calibrated to 1997 and 2005 levels.

2005: Estimate based on reported data (68 percent) confirmed by survey (64 percent).

2006: Estimate based on reported data.

2007: Estimate based on reported data.

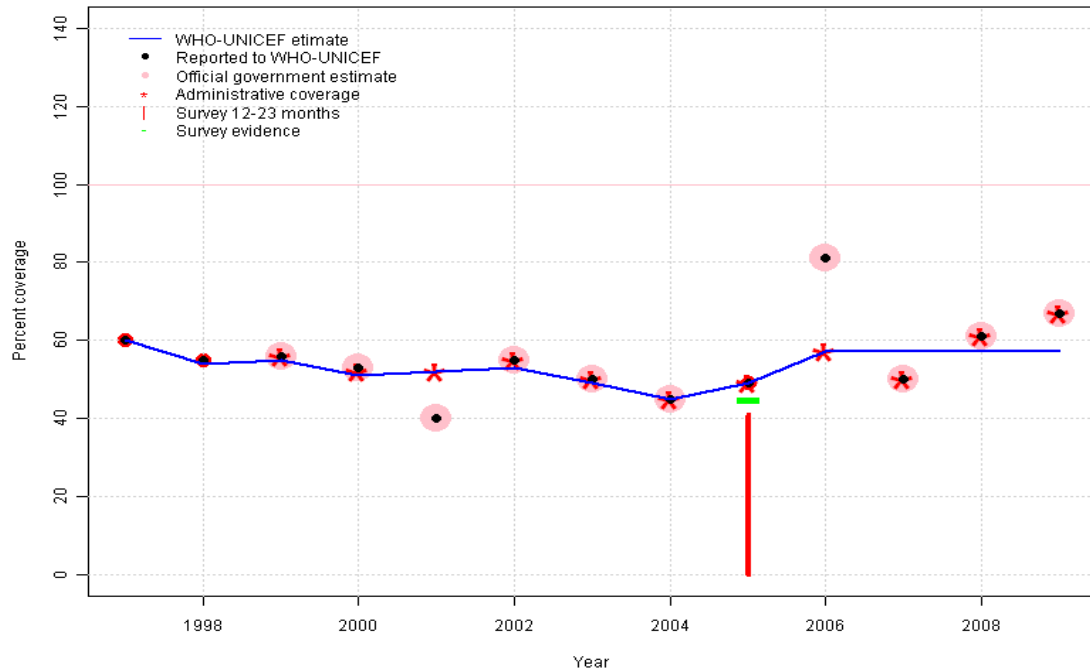
2008: Estimate based on reported data.

2009: Estimate based on reported data.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	82	82	83	83	59	64	72	66	68	68	59	73	76
Reported	NA	NA	NA	83	60	65	72	66	68	68	59	73	76
Official	NA	NA	NA	83	60	65	72	66	NA	NA	59	73	76
Administrative	NA	NA	NA	59	60	72	71	66	68	68	59	73	76
Survey	NA	NA	NA	NA	NA	NA	NA	NA	64	NA	NA	NA	NA

Lao People's Democratic Republic - DTP3

LAO - DTP3



Description:

1997: Legacy estimate.

1998: Reported data (55 percent) calibrated to 1997 and 2001 levels.

1999: Reported data (56 percent) calibrated to 1997 and 2001 levels.

2000: Reported data (53 percent) calibrated to 1997 and 2001 levels.

2001: Official report includes only children vaccinated before 11 months of age. Estimate is based on administrative data. 2001 reported data (40 percent) inconsistent with data from other years.

2002: Reported data (55 percent) calibrated to 2001 and 2005 levels.

2003: Reported data (50 percent) calibrated to 2001 and 2005 levels.

2004: Reported data (45 percent) calibrated to 2001 and 2005 levels.

2005: Estimate based on reported data (49 percent) confirmed by survey (45 percent). Survey results (41 percent) adjusted for recall bias to 45 percent based on first dose card or history coverage (64 percent) and documented drop-out between first (48 percent) and third (34 percent) doses.

2006: The 2006 estimate is based on administrative coverage using the projections from the National Statistics Center, while the national official estimate is based on the EPI system registration books. 2006 reported data (81 percent) inconsistent with data from other years.

2007: Estimate extrapolated from 2006 level (57 percent).

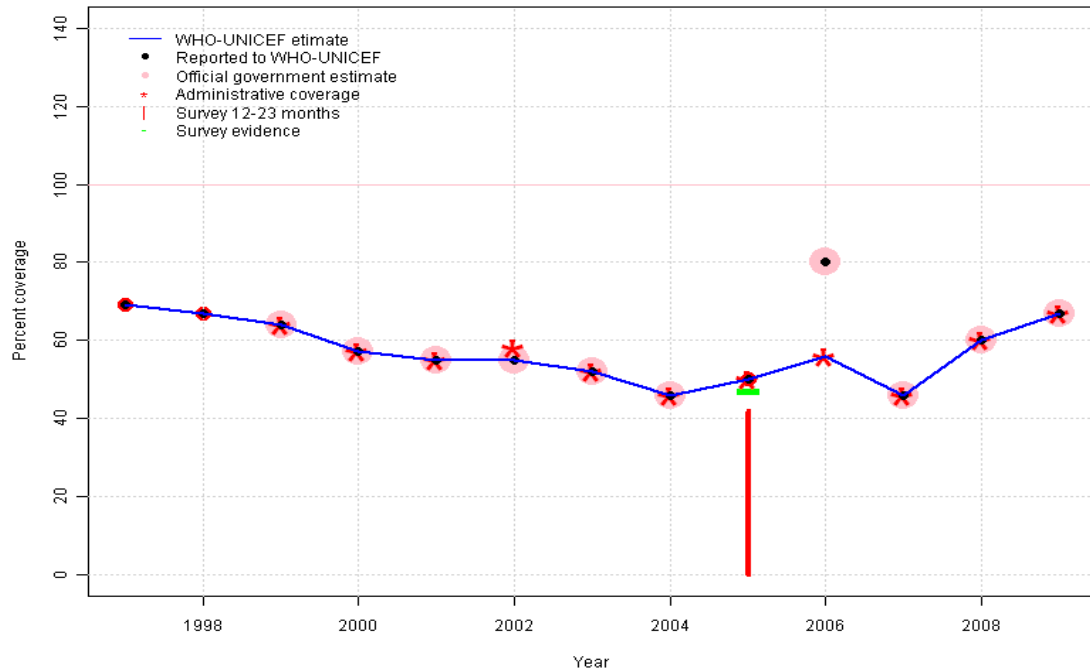
2008: Estimate extrapolated from 2006 level (57 percent).

2009: Estimate extrapolated from 2006 level (57 percent).

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	60	54	55	51	52	53	49	45	49	57	57	57	57
Reported	60	55	56	53	40	55	50	45	49	81	50	61	67
Official	NA	NA	56	53	40	55	50	45	NA	81	50	61	67
Administrative	NA	NA	56	52	52	55	50	45	49	57	50	61	67
Survey	NA	NA	NA	NA	NA	NA	NA	NA	45	NA	NA	NA	NA

Lao People's Democratic Republic - Pol3

LAO - Pol3



Description:

1997: Legacy estimate.

1998: Estimate based on reported data.

1999: Estimate based on reported data.

2000: Estimate based on reported data.

2001: Estimate based on reported data.

2002: Estimate based on reported data.

2003: Estimate based on reported data.

2004: Estimate based on reported data.

2005: Estimate based on reported data (50 percent) confirmed by survey (47 percent). Survey results (42 percent) adjusted for recall bias to 47 percent based on first dose card or history coverage (67 percent) and documented drop-out between first (48 percent) and third (34 percent) doses.

2006: Estimate assigned by working group. The 2006 estimate is based on administrative coverage using the projections from the National Statistics Center, while the national official estimate is based on the EPI system registration books. 2006 reported data (80 percent) inconsistent with data from other years.

2007: Estimate based on reported data.

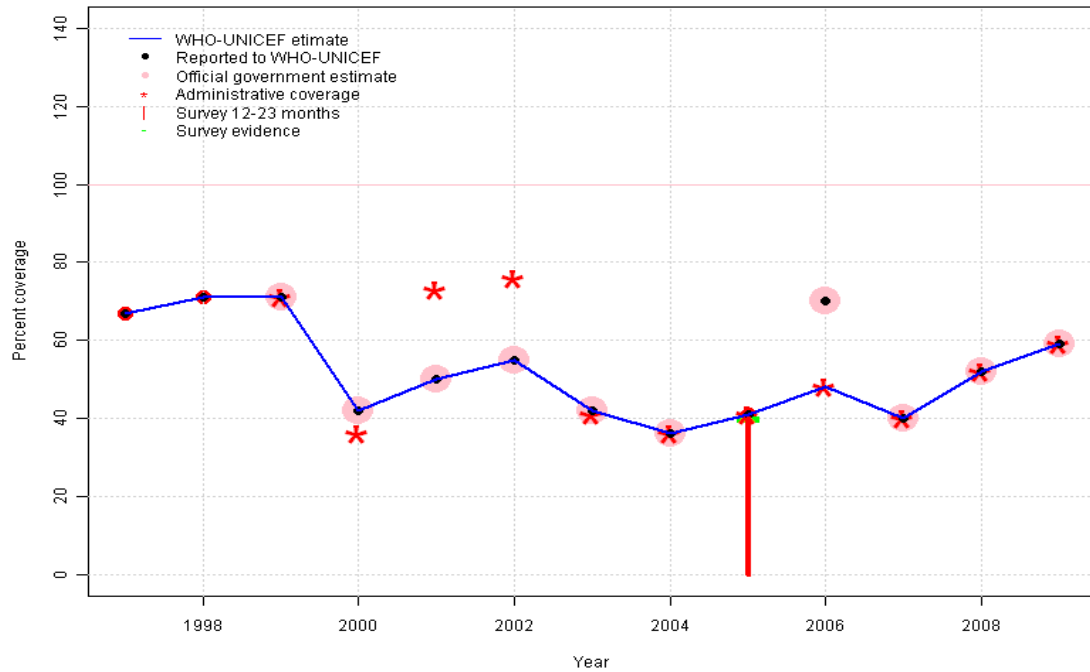
2008: Estimate based on reported data.

2009: Estimate based on reported data.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	69	67	64	57	55	55	52	46	50	56	46	60	67
Reported	69	67	64	57	55	55	52	46	50	80	46	60	67
Official	NA	NA	64	57	55	55	52	46	NA	80	46	60	67
Administrative	NA	NA	64	57	55	58	52	46	50	56	46	60	67
Survey	NA	NA	NA	NA	NA	NA	NA	NA	47	NA	NA	NA	NA

Lao People's Democratic Republic - MCV

LAO - MCV



	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	67	71	71	42	50	55	42	36	41	48	40	52	59
Reported	67	71	71	42	50	55	42	36	41	70	40	52	59
Official	NA	NA	71	42	50	55	42	36	NA	70	40	52	59
Administrative	NA	NA	71	36	73	76	41	36	41	48	40	52	59
Survey	NA	NA	NA	NA	NA	NA	NA	NA	40	NA	NA	NA	NA

Description:

1997: Legacy estimate.

1998: Estimate based on reported data.

1999: Estimate based on reported data.

2000: Estimate based on reported data.

2001: Estimate based on reported data.

2002: Estimate based on reported data.

2003: Estimate based on reported data.

2004: Estimate based on reported data.

2005: Estimate based on reported data (41 percent) confirmed by survey (40 percent).

2006: Estimate assigned by working group. The 2006 estimate is based on administrative coverage using the projections from the National Statistics Center, while the national official estimate is based on the EPI system registration books. 2006 reported data (70 percent) inconsistent with data from other years.

2007: Estimate based on reported data.

2008: Estimate based on reported data.

2009: Estimate based on reported data.

Lao People's Democratic Republic - HepB3

Description:

2003: Estimate based on reported data. HepB partially introduced in 2001 nationally in 2004 reporting started in 2003.

2004: Estimate based on reported data.

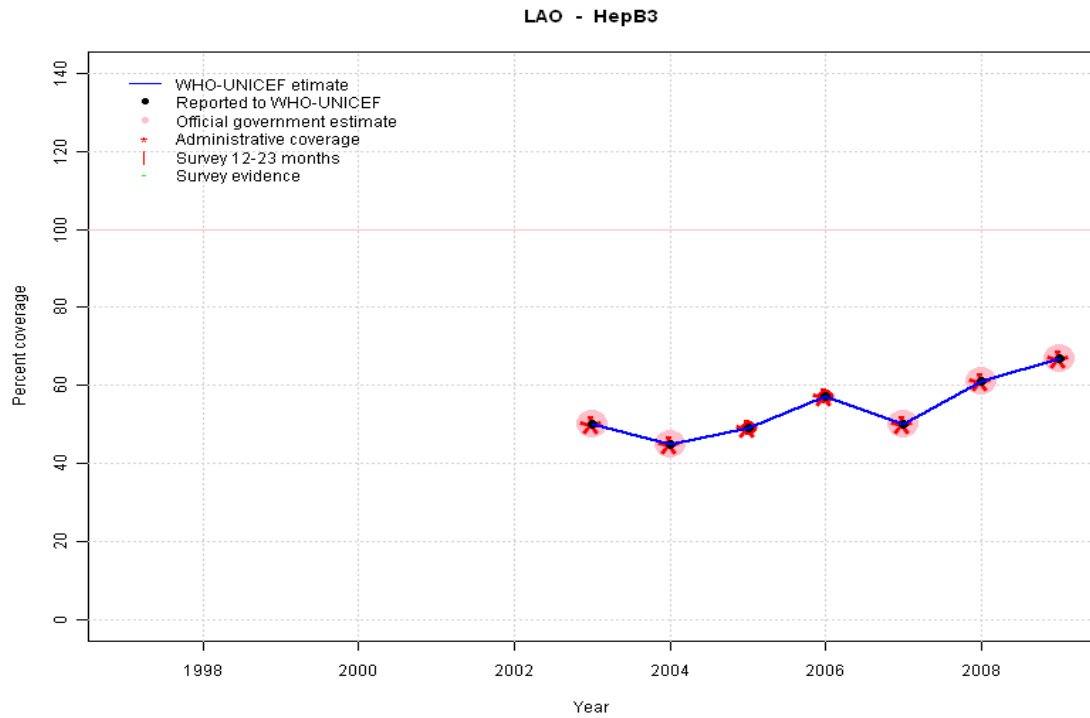
2005: Estimate based on reported data.

2006: Estimate based on reported data.

2007: Estimate based on reported data.

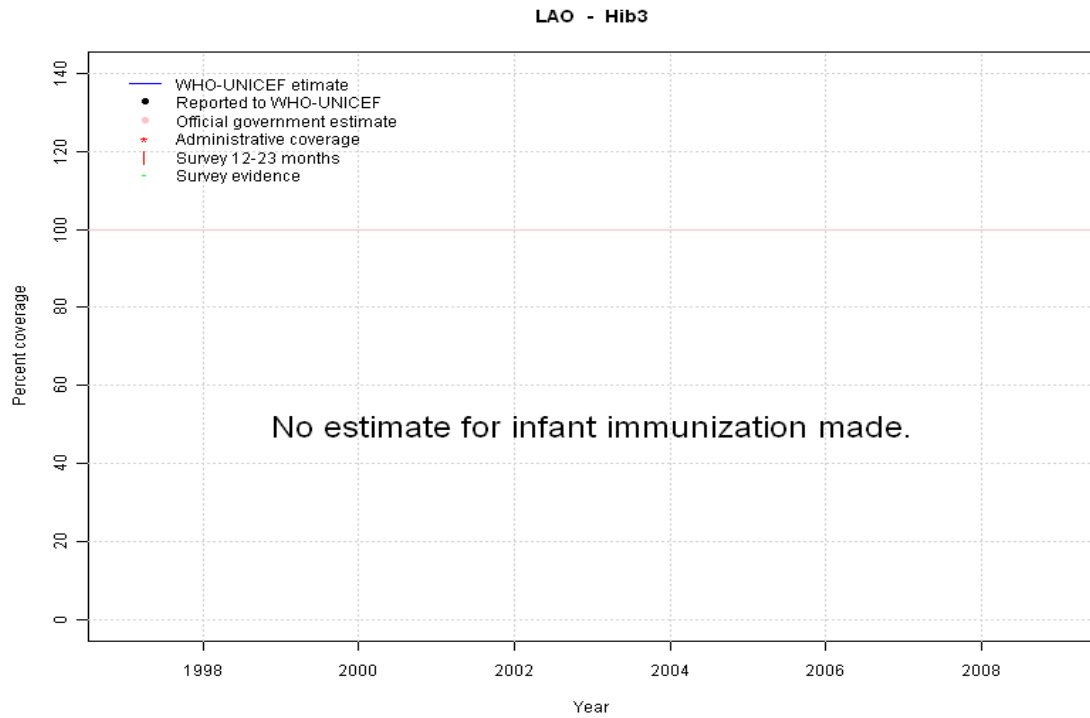
2008: Estimate based on reported data.

2009: Estimate based on reported data.



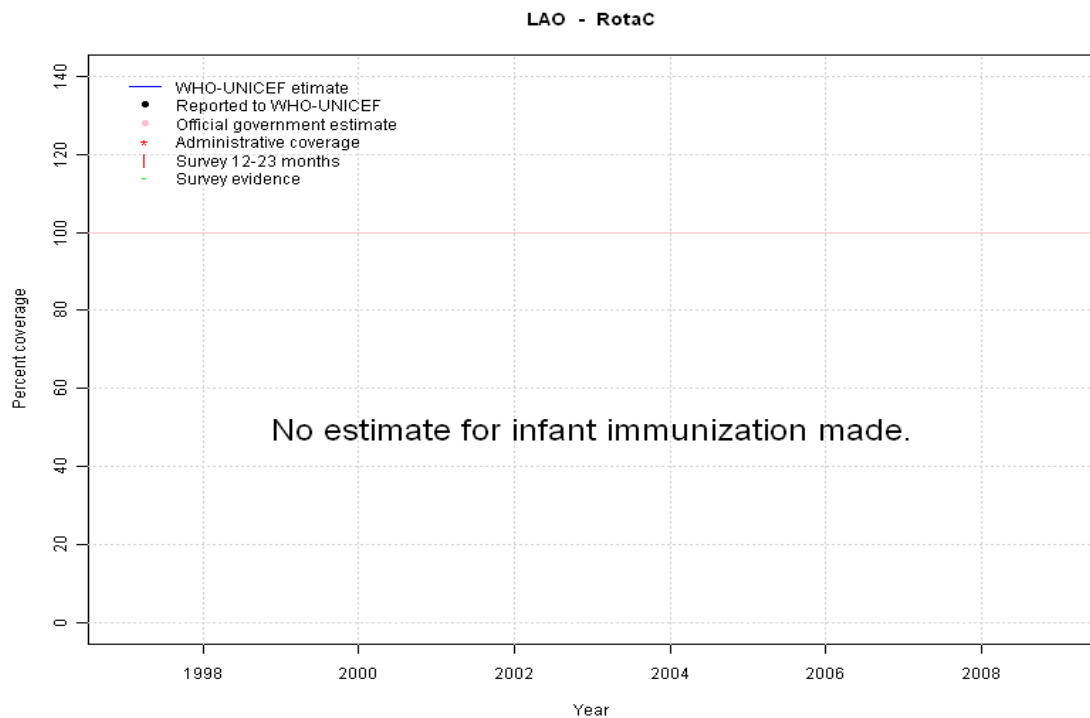
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	NA	NA	NA	NA	NA	NA	50	45	49	57	50	61	67
Reported	NA	NA	NA	NA	NA	NA	50	45	49	57	50	61	67
Official	NA	NA	NA	NA	NA	NA	50	45	NA	NA	50	61	67
Administrative	NA	NA	NA	NA	NA	NA	50	45	49	57	50	61	67
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Lao People's Democratic Republic - Hib3



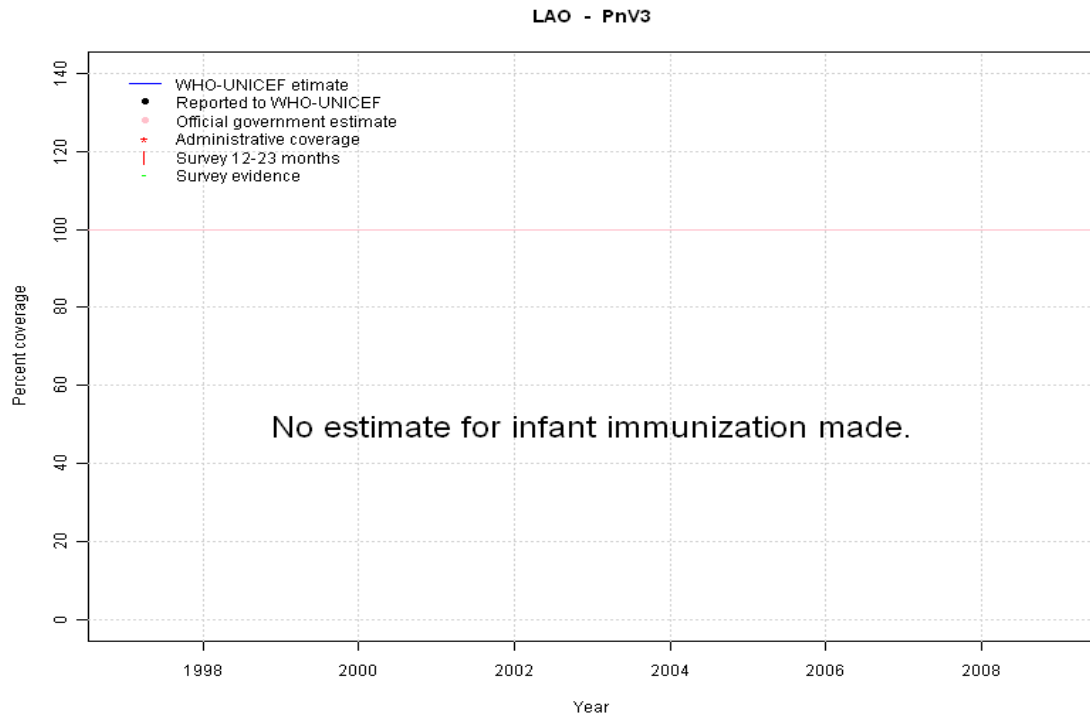
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Reported	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Lao People's Democratic Republic - RotaC



	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Reported	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Lao People's Democratic Republic - PnV3



	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Reported	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Lao People's Democratic Republic - survey details

2005 Lao PDR Multiple Indicator Cluster Survey 2006 Final Report

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	61	12-23 m	828	49
BCG	Card	47	12-23 m	828	49
BCG	Card or History	64	12-23 m	828	49
BCG	History	16	12-23 m	828	49
DTP1	Card or History	64	12-23 m	828	49
DTP1	Card	48	12-23 m	828	49
DTP1	History	16	12-23 m	828	49
DTP1	C or H <12 months	60	12-23 m	828	49
DTP3	History	8	12-23 m	828	49
DTP3	Card or History	41	12-23 m	828	49
DTP3	Card	34	12-23 m	828	49
DTP3	C or H <12 months	32	12-23 m	828	49
MCV	History	15	12-23 m	828	49
MCV	Card or History	40	12-23 m	828	49
MCV	Card	25	12-23 m	828	49
MCV	C or H <12 months	33	12-23 m	828	49
Pol1	History	19	12-23 m	828	49
Pol1	Card	48	12-23 m	828	49
Pol1	Card or History	67	12-23 m	828	49
Pol1	C or H <12 months	63	12-23 m	828	49

Pol3	Card or History	42	12-23 m	828	49
Pol3	C or H <12 months	32	12-23 m	828	49
Pol3	History	8	12-23 m	828	49
Pol3	Card	34	12-23 m	828	49

1999 Lao PDR Multiple Indicator Cluster Survey MICS-II 2000, 2001

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card	69	12-23 m	398	44
BCG	Card	69	12-23 m	398	44
DTP1	Card	83	12-23 m	398	44
DTP1	Card	83	12-23 m	398	44
DTP3	Card	53	12-23 m	398	44
DTP3	Card	53	12-23 m	398	44
MCV	Card	42	12-23 m	398	44
MCV	Card	42	12-23 m	398	44
Pol1	Card	81	12-23 m	398	44
Pol1	Card	81	12-23 m	398	44
Pol3	Card	57	12-23 m	398	44
Pol3	Card	57	12-23 m	398	44

Further information and estimates for 1980-1996 are available at:

http://www.childinfo.org/immunization_countryreports.html

http://www.who.int/immunization_monitoring/routine/immunization_coverage/en/index4.html

Lao People's Democratic Republic

WHO/UNICEF Estimates of Protection at Birth (PAB) against tetanus

In countries where tetanus is recommended for girls and women coverage is usually reported as "TT2+", i.e. the proportion of (pregnant) women who have received their second or superior TT dose in a given year. TT2 + coverage, however, can under-represent the actual proportion of births that are protected against tetanus as it does not include women who have previously received protective doses, women who received one dose without documentation of previous doses, and women who received doses in TT (or Td) supplemental immunization activities (SIA). In addition, girls who have received DTP in their childhood and are entering childbearing age, may be protected with TT booster doses.

WHO and UNICEF have developed a model that takes into account the above scenarios, and calculates the proportion of births in a given year that can be considered as having been protected against tetanus - "Protection at Birth".

In this model, annual cohorts of women are followed from infancy through their life. A proportion receive DTP in infancy (estimated based on the WHO-UNICEF estimates of DTP3 coverage). In addition some of these women also receive TT through routine services when they are pregnant and may also receive TT during SIAs. The model also adjusts reported data, taking into account coverage patterns in other years, and/or results available through surveys. The duration of protection is then calculated, based on WHO estimates of the duration of protection by doses ever received. The proportion of births that are protected against tetanus as a result of maternal immunization reflects the tetanus immunization received by the mother throughout her life rather than simply the TT immunizations received during the current pregnancy.

Year	PAB coverage estimate (%)
1997	45
1998	46
1999	48
2000	58
2001	52
2002	53
2003	54
2004	51
2005	50
2006	52
2007	47
2008	47
2009	47

¹ This model is described in: Griffiths U., Wolfson L., Quddus A., Younus M., Hafiz R.. Incremental cost-effectiveness of supplementary immunization activities to prevent neo-natal tetanus in Pakistan. Bulletin of the World Health Organization 2004; 82:643-651.